

CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8)

Applicant(s): PFLUEGER, G., ET AL

Docket No.

1586

Serial No.

09/807,861

Filing Date

07/03/2001

Examiner

NGUYEN, T.

Group Art Unit

2834

Invention: CLAW POLE GENERATOR

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United States Patent and Trademark Office

Examiner: Nguyen, T.

Art Unit: 2834

In re:

Applicant: PFLUEGER, G., et al

Serial No.: 09/807,861

Filed: July 3, 2001

REQUEST FOR RECONSIDERATION

April 22, 2003

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Hon. Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sirs:

Responsive to the Final Office Action of January 24, 2003, please amend
the application as follows:

REMARKS

The present Request for Reconsideration is submitted in response to the Final Office Action dated January 24, 2003, which set a three-month period for re response, making this request due by April 24, 2003.

Claims 15-28 are pending in this application.

In the Final Office Action, claim 15 was rejected under 35 U.S.C. 102(b) as being fully anticipated by U.S. Patent No. 5,437,090 to Sakane et al. Claims 16-29 were rejected under 35 U.S.C. 103(a) as being unpatentable over Sakane et al in view of U.S. Patent No. 5,483,116 to Kusase et al.

The Applicants respectfully disagree that the cited reference to Sakane anticipates the present invention as defined in claim 15, or that claims 16-29 are obvious over the Sakane and Kusase reference combination.

Sakane discloses a retaining means (a nonmagnetic ring 3c) that connects a pole wheel half (first claws 3a) with a pole carrier (second claw 3b). The retaining means clearly is a ring with a constant cross sectional area. The claws of the pole wheel half abut against a right face surface and an outer cylindrical surface. The claws of the pole carrier abut against a left face surface and also against the outer cylindrical surface, as shown in Fig. 8 of Sakane. Upon examination of that technical interrelationship, it is clear that the retaining means of Sakane is radially encircled by all of the claws of the pole wheel half and the pole carrier. In other words, if one views the axis of the shaft 2 of Sakane and lays a cross section through the ring, so that the cross section is

orthographic to the axis, it can be seen that all of the claws are radially outside of the ring 3c. The retaining means (nonmagnetic ring 3c) of Sakane clearly is not disposed to any extent "at least partly in the claw pole interstices", as define the present invention.

If it were proposed that the cited patent to Kusase et al discloses this feature, again, this supposition could not stand. As previously argued, in Kusase, a holding means (magnet holder 12) is disclosed, which, however, only serves for retaining the permanent magnets 11. The holding means itself is only clamped by form-locking between the pole wheel halves. Any attachment by means of material engagement or other attachment means is not provided by Kusase. The pole wheel halves are only connected to one another via the rotor shaft. Thus, claim 15 of the present application is not anticipated by the Kusase reference.

The connection as defined in the claims of the present application provides distinct advantages over the cited references. These advantages include a much stiffer connection between the pole wheel half and the pole carrier, which provides a more secure connection. In addition, the present invention provides the possibility of creating an absolute cylindrical surface of the rotor, leading to less air resistance. The present invention offers improved dissipating and balancing of lost heat from the pole carrier to the pole wheel half, as the retaining means is arranged nearer to the outer diameter of the rotor. Therefore, heat can be better dissipated to the environment. This is essential, as the pole carrier does not have a direct connection to the shaft 32. The form of

the claws of the present invention can be optimized to electro-magnetic demands. Sakane shows claws in which cross sections in the region of the face surfaces are discontinuously reduced. This affects a higher resistance for electric flux lines, and therefore, detrimental energy efficiency.

For the reasons set forth above, the Applicants respectfully submit that the cited references fail to anticipate or make obvious the subject matter of the present invention as defined in claims 15-28. The Applicants therefore respectfully request withdrawal of the final rejection and reconsideration of the claims as herein amended.

It is noted that with respect to the IDS considered by the Examiner on January 19, 2003, the Examiner has apparently stricken out the reference Boach Technische Unterrichtung, Generators, Edition 1998-1999, PP 25-27. It is believed however, that this reference should have been considered and therefore consideration of this reference is respectfully requested.

In light of the foregoing arguments in support of patentability, the Applicants respectfully submit that this application stands in condition for allowance. Action to this end is courteously solicited.

Should the Examiner have any further comments or suggestions, the undersigned would very much welcome a telephone call in order to discuss appropriate claim language that will place the application into condition for allowance.

Respectfully submitted,



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